

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P970837

Luminaire Tested: **NAV-SB6C-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44325.1 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

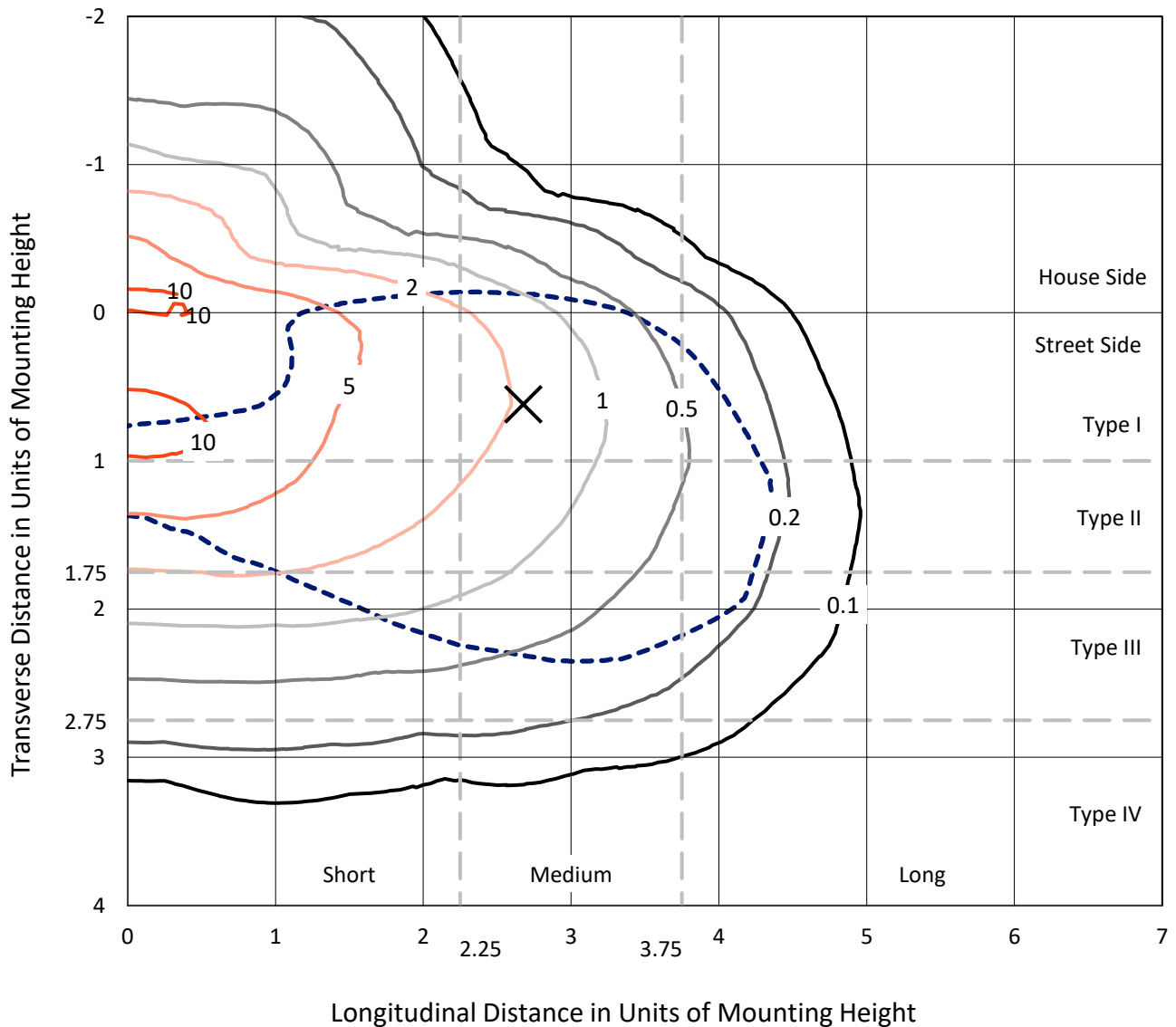
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

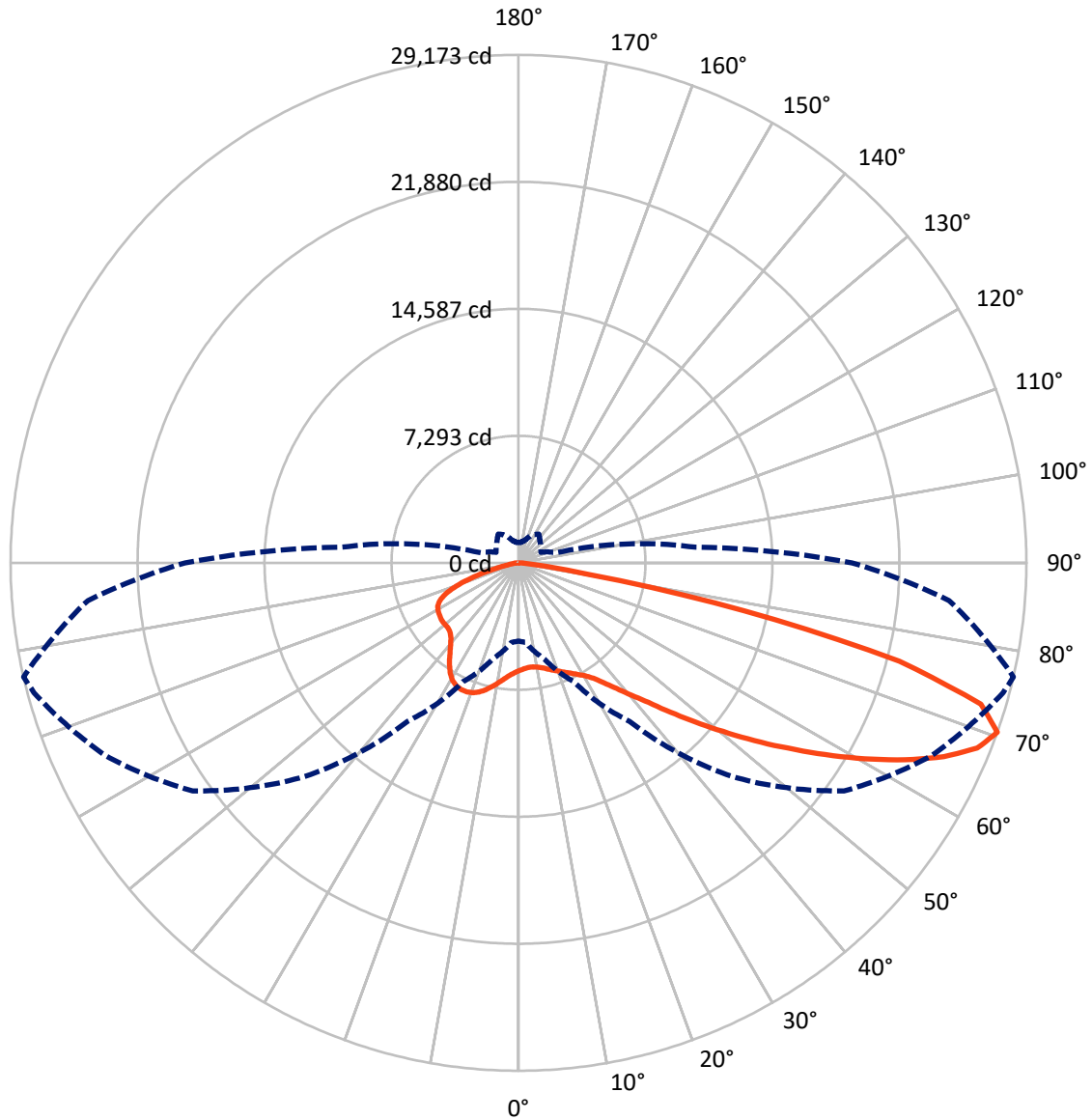
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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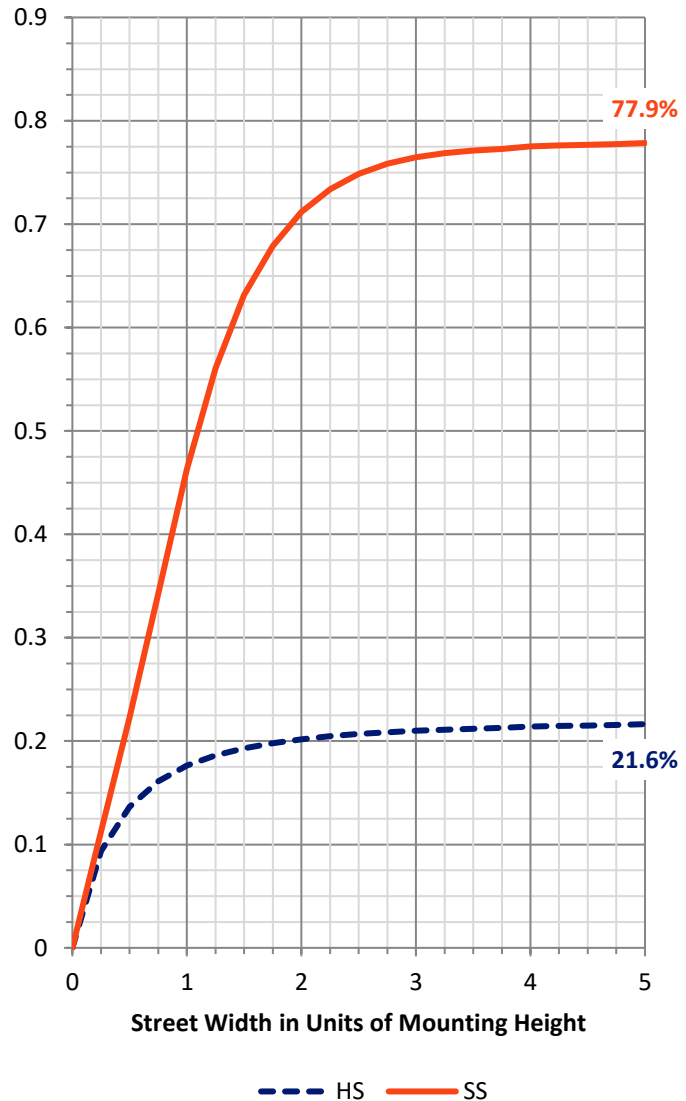
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9706.5	0.0	9706.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	34618.6	0.0	34618.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	44325.1	0.0	44325.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.8	1.3
10°-20°	1702.1	3.8
20°-30°	2910.9	6.6
30°-40°	4681.0	10.6
40°-50°	7308.2	16.5
50°-60°	9762.0	22.0
60°-70°	10404.8	23.5
70°-80°	6405.1	14.5
80°-90°	561.3	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	44325.1	100.0
0°-180°	44325.1	100.0

Coefficient of Utilization

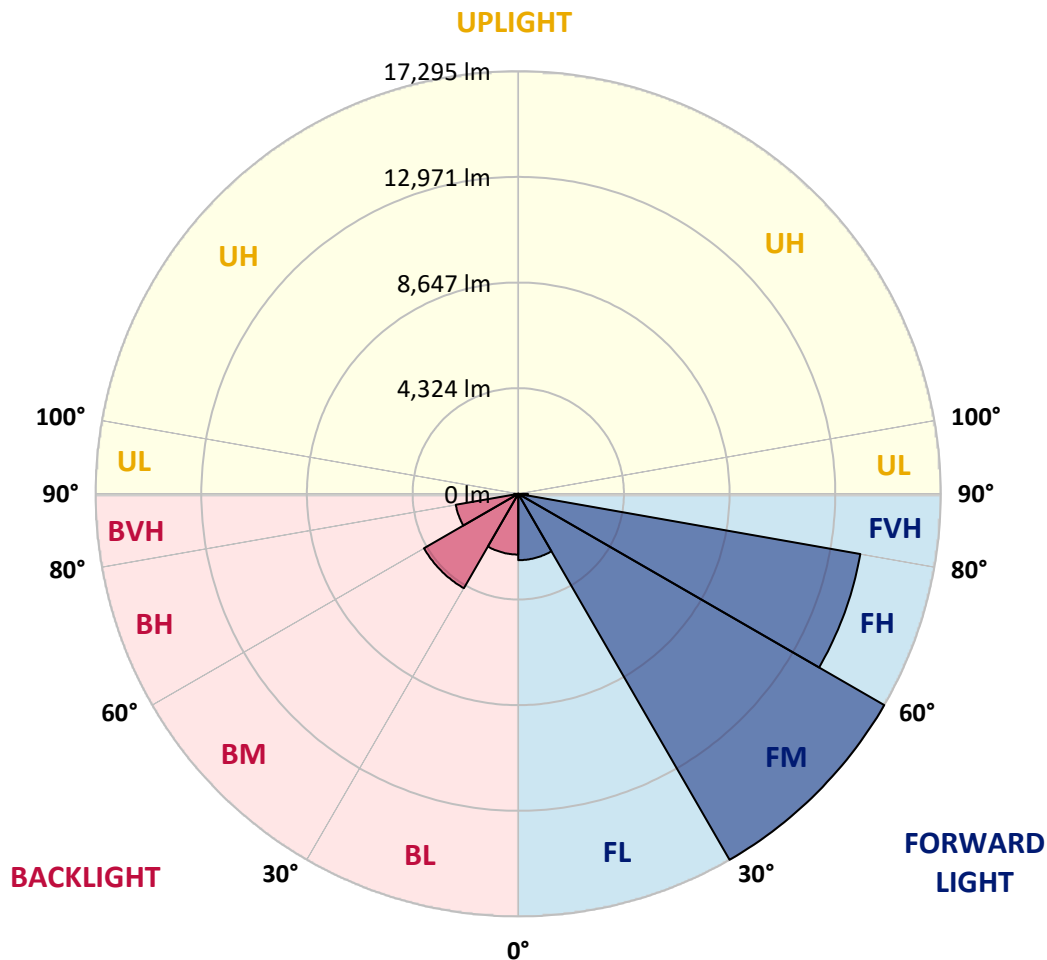


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2715.6	6.1			
FM (30°-60°)	17294.7	39.0			
FH (60°-80°)	14215.8	32.1			G5
FVH (80°-90°)	392.5	0.9			G3/500
BL (0°-30°)	2487.1	5.6	B3/2500		
BM (30°-60°)	4456.5	10.1	B3/5000		
BH (60°-80°)	2594.1	5.9	B4/5000		G4/5000
BVH (80°-90°)	168.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7
2.5°	5700.2	5698.0	5727.5	5736.5	5791.0	5829.6	5902.3	5979.4	6079.4	6090.7	6151.9
5°	5371.1	5371.1	5405.1	5441.4	5511.8	5589.0	5700.2	5834.2	6006.7	6034.0	6186.0
7.5°	5091.8	5110.0	5139.6	5209.9	5291.6	5402.9	5573.1	5763.8	5990.8	6034.0	6279.2
10°	4867.1	4887.5	4923.9	4980.6	5103.2	5257.5	5480.1	5725.2	6029.4	6097.5	6415.3
12.5°	4796.7	4817.2	4837.6	4880.7	4994.2	5175.8	5441.4	5743.4	6122.4	6190.6	6601.4
15°	4960.2	4985.2	4969.3	4957.9	5017.0	5182.6	5459.6	5809.2	6238.3	6335.8	6830.7
17.5°	5337.0	5346.1	5309.8	5203.1	5194.0	5282.5	5545.9	5900.0	6383.5	6490.2	7062.2
20°	5945.4	5929.5	5854.6	5643.4	5523.1	5505.0	5693.5	6036.2	6533.3	6646.8	7312.0
22.5°	6771.7	6753.5	6603.8	6270.0	6002.2	5825.1	5906.8	6213.2	6701.3	6828.4	7554.9
25°	7802.3	7777.4	7557.1	7103.1	6687.7	6249.6	6197.4	6447.0	6907.9	7026.0	7809.2
27.5°	9005.4	8985.0	8746.7	8147.4	7548.1	6830.7	6558.4	6721.7	7123.5	7257.5	8095.1
30°	10299.4	10358.4	9936.2	9291.5	8533.3	7589.0	7044.1	7060.0	7402.8	7523.1	8442.5
32.5°	11820.4	11922.6	11414.1	10596.9	9561.7	8413.0	7657.1	7532.2	7809.2	7909.0	8880.6
35°	13327.8	13443.5	13021.3	12117.8	10926.0	9384.6	8297.2	8074.7	8349.4	8458.4	9461.8
37.5°	14630.8	14785.2	14567.2	13781.7	12385.7	10556.0	9132.6	8712.6	9014.6	9150.8	10242.7
40°	15659.1	15895.3	15879.4	15389.0	14106.5	11977.0	10192.8	9500.4	9840.9	9988.4	11189.3
42.5°	16494.5	16698.9	16875.9	16851.0	15902.1	13591.1	11439.0	10524.2	10783.0	10953.3	12254.0
45°	17071.2	17289.1	17670.5	18081.3	17629.6	15318.6	12866.9	11738.7	11974.8	12231.3	13523.0
47.5°	17586.4	17833.9	18328.8	18980.3	19096.1	17053.0	14431.1	13153.0	13368.7	13634.2	14796.5
50°	17631.8	17845.2	18612.6	19536.5	20138.1	18719.3	16111.0	14739.8	14941.8	15225.6	16160.9
52.5°	16535.4	16871.4	18210.8	19520.6	20617.1	20113.1	17779.4	16390.2	16617.1	16957.7	17572.8
55°	12835.2	13327.8	17032.5	18912.2	20446.8	21014.3	19366.2	18145.0	18435.4	18791.9	18994.0
57.5°	11055.3	11271.0	13520.7	17804.5	19670.5	21248.1	20705.6	19917.9	20385.5	20775.9	20496.7
60°	9936.2	10115.5	11445.9	16081.4	18648.8	20878.1	21740.8	21570.5	22378.6	22844.1	22033.6
62.5°	8737.6	8907.9	10117.9	13427.6	17341.3	20262.9	22394.5	23096.0	24421.8	24930.3	23481.9
65°	7548.1	7693.3	8853.4	11282.4	15679.6	19647.7	22732.8	24415.0	26312.8	26839.4	24685.1
67.5°	6222.4	6342.7	7439.1	9518.6	13659.2	18805.5	22900.8	25452.4	27958.6	28410.3	25279.9
70°	4490.2	4583.3	5716.1	7527.7	11123.5	17357.1	22832.7	26187.9	28812.1	29173.0	24830.3
72.5°	2122.6	2206.5	3536.9	4887.5	7856.8	14537.7	21454.7	25604.5	27945.0	27765.6	22079.0
75°	1132.8	1205.4	2031.8	2681.0	4149.7	9965.8	17556.9	22056.3	23466.0	22594.3	16317.5
77.5°	767.3	824.0	1257.7	1609.5	1895.5	4730.9	11284.6	15271.0	14692.1	13252.8	8172.3
80°	608.3	667.4	1030.6	1089.7	917.2	1709.4	4662.8	7069.1	5078.3	4061.3	2324.6
82.5°	467.6	533.5	867.2	790.0	499.4	701.5	1357.5	2236.0	1300.7	989.7	563.0
85°	286.1	356.4	681.0	504.0	281.5	320.1	460.8	622.0	397.3	331.5	202.0
87.5°	145.2	204.3	345.0	183.9	127.1	74.9	122.6	122.6	104.4	90.8	52.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7	6183.7
2.5°	6206.5	6251.9	6329.1	6401.6	6458.4	6513.0	6567.4	6596.9	6606.0	6642.3	6662.7
5°	6279.2	6363.1	6513.0	6653.7	6742.2	6796.7	6835.3	6858.0	6862.5	6873.9	6892.0
7.5°	6413.0	6547.0	6755.8	6896.6	6962.4	6957.9	6942.0	6885.2	6862.5	6842.1	6846.6
10°	6601.4	6778.5	7035.1	7132.7	7091.8	6982.8	6842.1	6676.3	6599.2	6524.2	6501.6
12.5°	6835.3	7060.0	7312.0	7307.4	7105.4	6826.2	6499.3	6245.0	6083.9	5968.1	5940.9
15°	7119.0	7377.8	7570.8	7416.4	6973.8	6472.1	5993.1	5661.6	5516.3	5389.2	5375.6
17.5°	7411.9	7688.8	7777.4	7382.4	6642.3	5947.7	5405.1	5144.1	5001.1	4932.9	4953.3
20°	7698.0	7972.6	7900.0	7187.1	6138.3	5352.9	4869.4	4726.4	4696.9	4712.7	4705.9
22.5°	7999.8	8245.0	7924.9	6810.3	5495.9	4744.5	4478.9	4483.5	4549.3	4596.9	4608.3
25°	8308.5	8474.3	7859.1	6265.5	4805.8	4297.3	4231.5	4304.1	4433.5	4526.6	4551.5
27.5°	8606.0	8678.6	7716.1	5591.3	4213.3	3977.2	3988.6	4138.4	4333.6	4463.1	4494.8
30°	8941.9	8860.2	7441.4	4833.1	3802.4	3702.5	3797.8	3972.7	4167.9	4283.7	4310.9
32.5°	9321.0	9016.8	7005.6	4131.6	3511.9	3482.3	3639.0	3752.5	3838.7	3872.8	3891.0
35°	9793.3	9237.0	6447.0	3639.0	3250.8	3321.2	3471.0	3414.3	3380.1	3362.0	3380.1
37.5°	10406.1	9534.4	5793.3	3318.8	3039.6	3205.4	3266.7	3089.7	2955.7	2889.9	2905.8
40°	11143.9	9970.3	5164.5	3071.4	2905.8	3105.5	2998.8	2785.4	2615.2	2522.1	2528.9
42.5°	11963.4	10426.6	4635.6	2885.3	2830.8	3023.7	2801.3	2547.0	2272.3	2242.9	2272.3
45°	12823.8	10896.5	4274.6	2742.3	2794.5	2953.4	2687.8	2276.9	2081.7	2202.0	2265.6
47.5°	13684.2	11327.8	4056.6	2635.6	2776.3	2874.0	2587.9	2127.1	1988.6	2163.4	2245.2
50°	14642.1	11713.7	3959.1	2558.4	2755.9	2842.1	2438.1	2088.5	1891.0	2006.7	2093.0
52.5°	15593.3	12013.4	3886.4	2481.2	2726.4	2817.2	2365.5	2043.1	1772.9	1779.8	1827.5
55°	16542.3	12208.6	3807.0	2379.0	2660.6	2762.7	2358.6	1993.1	1684.4	1652.6	1675.4
57.5°	17554.7	12319.9	3709.4	2265.6	2547.0	2624.2	2351.9	1954.6	1657.2	1604.9	1611.8
60°	18585.3	12483.3	3582.2	2127.1	2394.9	2458.6	2336.0	1940.9	1641.3	1552.8	1559.5
62.5°	19509.2	12540.1	3430.2	1995.5	2199.8	2295.1	2301.8	1929.6	1598.2	1446.1	1446.1
65°	20115.3	12294.9	3164.5	1845.6	1988.6	2127.1	2236.0	1891.0	1521.0	1368.9	1368.9
67.5°	20090.4	11595.7	2749.0	1652.6	1784.3	1940.9	2140.7	1825.1	1427.9	1273.6	1280.3
70°	19155.1	10215.5	2222.4	1427.9	1559.5	1741.2	2018.1	1727.5	1316.6	1169.1	1182.7
72.5°	16428.7	7995.3	1614.1	1164.6	1298.5	1534.6	1859.2	1609.5	1203.1	1076.0	1069.2
75°	11736.5	5060.0	1094.2	894.4	1010.2	1300.7	1661.7	1471.0	1098.7	1080.6	1019.3
77.5°	5995.3	2417.7	724.2	653.7	703.8	1026.1	1396.2	1314.4	1114.6	892.2	794.6
80°	1950.1	892.2	456.3	445.0	467.6	683.3	1080.6	1078.3	844.5	606.1	535.8
82.5°	622.0	383.7	297.4	286.1	274.7	429.1	753.7	853.5	569.8	383.7	381.4
85°	247.4	229.3	174.8	161.1	115.8	202.0	395.0	567.5	424.6	277.0	283.7
87.5°	90.8	90.8	47.7	34.0	25.0	68.1	106.7	170.3	242.9	143.0	140.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)